

## Refine Search

### Search Results -

Terms	Documents
L3 and model and subtract\$ and disturbance	23

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L4

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Monday, February 13, 2006 [Printable Copy](#) [Create Case](#)

**Set Name** **Query**  
 side by side

**Hit Count** **Set Name**  
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

<u>L4</u>	L3 and model and subtract\$ and disturbance	23	<u>L4</u>
<u>L3</u>	L2 and control\$ near system	89	<u>L3</u>
<u>L2</u>	L1 and "PID"	104	<u>L2</u>
<u>L1</u>	700/27-28.ccls.	1262	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 23 of 23 returned.

☐ 1. Document ID: US 20040133286 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 23

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040133286

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040133286 A1

TITLE: Automatic control system

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Futatsugi, Takehiko	Annaka-shi		JP
Sato, Hiroo	Takasaki-shi		JP

US-CL-CURRENT: 700/28; 700/37

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 2. Document ID: US 20040049299 A1

L4: Entry 2 of 23

File: PGPB

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040049299

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040049299 A1

TITLE: Integrated model predictive control and optimization within a process control system

PUBLICATION-DATE: March 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wojsznis, Wilhelm	Round Rock	TX	US
Blevins, Terry	Round Rock	TX	US
Nixon, Mark	Round Rock	TX	US

US-CL-CURRENT: 700/29; 700/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 3. Document ID: US 20040049295 A1

L4: Entry 3 of 23

File: PGPB

Mar 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040049295

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040049295 A1

TITLE: Constraint and limit feasibility handling in a process control system  
optimizer

PUBLICATION-DATE: March 11, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wojsznis, Wilhelm	Austin	TX	US
Blevins, Terrence	Round Rock	TX	US
Nixon, Mark	Round Rock	TX	US
Wojsznis, Peter	Cedar Park	TX	US

US-CL-CURRENT: 700/28; 700/19, 700/52

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 4. Document ID: US 20030028264 A1

L4: Entry 4 of 23

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030028264

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030028264 A1

TITLE: Control system for plant

PUBLICATION-DATE: February 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yasui, Yuji	Wako-shi		JP
Iwaki, Yoshihisa	Wako-shi		JP
Takahashi, Jun	Wako-shi		JP

US-CL-CURRENT: 700/29; 700/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 5. Document ID: US 20030028262 A1

L4: Entry 5 of 23

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030028262  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030028262 A1

TITLE: Control system for throttle valve actuating device

PUBLICATION-DATE: February 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yasui, Yuji	Wako-shi		JP
Iwaki, Yoshihisa	Wako-shi		JP
Takahashi, Jun	Wako-shi		JP

US-CL-CURRENT: 700/28; 700/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 6. Document ID: US 20030023328 A1

L4: Entry 6 of 23

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030023328  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030023328 A1

TITLE: Control apparatus, control method, and engine control unit

PUBLICATION-DATE: January 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yasui, Yuji	Saitama-ken		JP

US-CL-CURRENT: 700/28; 700/40, 700/44, 701/103

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 7. Document ID: US 20020128730 A1

L4: Entry 7 of 23

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020128730  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020128730 A1

TITLE: Disturbance estimated type control system, gas compressor control system and

method of designing a disturbance estimated type control system

PUBLICATION-DATE: September 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Shimada, Akira	Chiba-shi		JP
Nonami, Kenzou	Chiba-shi		JP

US-CL-CURRENT: 700/29; 700/28, 700/30, 700/37, 700/39

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 8. Document ID: US 20020022903 A1

L4: Entry 8 of 23

File: PGPB

Feb 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020022903

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020022903 A1

TITLE: Frequency domain auto-tune for an internal motor controller

PUBLICATION-DATE: February 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Krah, Jens Onno	Wuppertal	VA	DE
Ellis, George	Blacksburg		US

US-CL-CURRENT: 700/170; 700/28, 700/31, 700/37

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 9. Document ID: US 6988017 B2

L4: Entry 9 of 23

File: USPT

Jan 17, 2006

US-PAT-NO: 6988017

DOCUMENT-IDENTIFIER: US 6988017 B2

TITLE: Adaptive sampling method for improved control in semiconductor manufacturing

DATE-ISSUED: January 17, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050221514 A1	October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pasady; Alexander James	Austin	TX		US
Toprac; Anthony John	Austin	TX		US
Miller; Michael Lee	Austin	TX		US

US-CL-CURRENT: 700/121; 438/10, 438/14, 438/17, 438/5, 438/6, 700/106, 700/109,  
700/110, 700/112, 700/117, 700/119, 700/173, 700/186, 700/28, 700/29, 700/30,  
700/32, 700/48, 700/95

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 10. Document ID: US 6985809 B2

L4: Entry 10 of 23

File: USPT

Jan 10, 2006

US-PAT-NO: 6985809

DOCUMENT-IDENTIFIER: US 6985809 B2

TITLE: Control apparatus, control method, and engine control unit

DATE-ISSUED: January 10, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030125865 A1

July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yasui; Yuji	Saitama-ken			JP

US-CL-CURRENT: 701/109; 123/672, 123/679, 60/276, 60/285, 700/28, 700/29, 700/40,  
700/44, 701/103

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 11. Document ID: US 6937910 B2

L4: Entry 11 of 23

File: USPT

Aug 30, 2005

US-PAT-NO: 6937910

DOCUMENT-IDENTIFIER: US 6937910 B2

TITLE: Method and a system for evaluating whether a signal is suitable for feed-forward control

DATE-ISSUED: August 30, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petersson; Mikael	Lund			SE

US-CL-CURRENT: 700/44; 318/561, 700/28, 700/37, 700/39, 700/45, 700/46

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

Jun 22, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KQMC	Drawn	Doc
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	-------	-----

Dec 23, 2003

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KBAC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 14. Document ID: US 6082099 A

L4: Entry 14 of 23

File: USPT

Jul 4, 2000

US-PAT-NO: 6082099

DOCUMENT-IDENTIFIER: US 6082099 A

TITLE: Plant control system

DATE-ISSUED: July 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yasui; Yuji	Wako			JP
Akazaki; Shusuke	Wako			JP
Iwaki; Yoshihisa	Wako			JP

US-CL-CURRENT: 60/276; 123/674, 123/679, 60/285, 700/28, 700/54, 701/103

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	--------

☐ 15. Document ID: US 6079205 A

L4: Entry 15 of 23

File: USPT

Jun 27, 2000

US-PAT-NO: 6079205

DOCUMENT-IDENTIFIER: US 6079205 A

TITLE: Plant control system

DATE-ISSUED: June 27, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yasui; Yuji	Wako			JP
Akazaki; Shusuke	Wako			JP
Iwaki; Yoshihisa	Wako			JP

US-CL-CURRENT: 60/276; 123/674, 123/679, 60/285, 700/28, 700/54, 701/103

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	--------

☐ 16. Document ID: US 5877954 A

L4: Entry 16 of 23

File: USPT

Mar 2, 1999

US-PAT-NO: 5877954

DOCUMENT-IDENTIFIER: US 5877954 A

TITLE: Hybrid linear-neural network process control



DATE-ISSUED: March 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klimasauskas; Casimir C.	Sewickley	PA		
Guiver; John P.	Pittsburgh	PA		

US-CL-CURRENT: 700/29; 700/28, 700/31, 700/48, 706/16, 706/23

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Ds
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 17. Document ID: US 5638267 A

L4: Entry 17 of 23

File: USPT

Jun 10, 1997

US-PAT-NO: 5638267

DOCUMENT-IDENTIFIER: US 5638267 A

TITLE: Method and apparatus for minimizing unwanted dynamics in a physical system

DATE-ISSUED: June 10, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Singhose; William E.	Pleasantville	NY		
Singer; Neil C.	Armonk	NY		
Derezinski, III; Stephen J.	Pleasantville	NY		
Rappole, Jr.; Bert W.	New York	NY		
Pasch; Kenneth	Kennebunkport	ME		

US-CL-CURRENT: 700/28

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Ds
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 18. Document ID: US 5627750 A

L4: Entry 18 of 23

File: USPT

May 6, 1997

US-PAT-NO: 5627750

DOCUMENT-IDENTIFIER: US 5627750 A

TITLE: Clutch slip control device and method of manufacturing the same, clutch slip control method, and vehicle control device

DATE-ISSUED: May 6, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kono; Katsumi	Toyota			JP
Ito; Hiroshi	Toyota			JP

Fukumura; Kagenori	Toyota	JP
Nakamura; Shinya	Asahi	JP
Osawa; Masataka	Nagoya	JP
Hibino; Ryoichi	Aichi-ken	JP
Yamada; Masatoshi	Nagoya	JP

US-CL-CURRENT: 701/67; 477/176, 477/86, 700/28, 700/45

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 19. Document ID: US 5568377 A

L4: Entry 19 of 23

File: USPT

Oct 22, 1996

US-PAT-NO: 5568377

DOCUMENT-IDENTIFIER: US 5568377 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Fast automatic tuning of a feedback controller

DATE-ISSUED: October 22, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seem; John E.	Shorewood	WI		
Decious; Gaylon M.	Milwaukee	WI		

US-CL-CURRENT: 700/37; 700/28, 700/42

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 20. Document ID: US 5541832 A

L4: Entry 20 of 23

File: USPT

Jul 30, 1996

US-PAT-NO: 5541832

DOCUMENT-IDENTIFIER: US 5541832 A

TITLE: Control device for controlling a controlled apparatus, and a control method therefor

DATE-ISSUED: July 30, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakajima; Masaaki	Hitachi			JP
Hattori; Satoshi	Hitachi			JP
Saito; Yutaka	Hitachi			JP
Katayama; Yasunori	Mito			JP

Morooka; Yasuo                      Hitachi                      JP  
Kawakami; Junzo                      Mito                      JP

US-CL-CURRENT: 700/28; 700/148, 706/23, 706/900, 706/906

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 21. Document ID: US 5379210 A

L4: Entry 21 of 23

File: USPT

Jan 3, 1995

US-PAT-NO: 5379210

DOCUMENT-IDENTIFIER: US 5379210 A

TITLE: Natural tracking controller

DATE-ISSUED: January 3, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grujic; Ljubomir T.	Villeneuve d'Ascq			FR
Mounfield, Jr.; William P.	Baton Rouge	LA		

US-CL-CURRENT: 700/28; 700/45

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 22. Document ID: US 5331565 A

L4: Entry 22 of 23

File: USPT

Jul 19, 1994

US-PAT-NO: 5331565

DOCUMENT-IDENTIFIER: US 5331565 A

TITLE: Control system having optimality decision means

DATE-ISSUED: July 19, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hattori; Satoshi	Hitachi			JP
Ueki; Shigeru	Tokyo			JP
Saito; Yutaka	Hitachi			JP
Manchu; Tetsuo	Hitachi			JP
Katayama; Yasunori	Mito			JP
Morooka; Yasuo	Hitachi			JP
Matsumoto; Hiroshi	Ibaraki			JP
Nakajima; Masaaki	Hitachi			JP

US-CL-CURRENT: 700/28; 706/900

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 23. Document ID: US 4719561 A

L4: Entry 23 of 23

File: USPT

Jan 12, 1988

US-PAT-NO: 4719561

DOCUMENT-IDENTIFIER: US 4719561 A

TITLE: Robust control apparatus responsive against disturbance

DATE-ISSUED: January 12, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shigemasa; Takashi	Yokohama			JP

US-CL-CURRENT: 700/28; 700/31, 700/40, 700/42, 700/43

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms

Documents

L3 and model and subtract\$ and disturbance

23

Display Format: [Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

## Refine Search

### Search Results -

Terms	Documents
L1 and control near (object or system) same ((mathematical near model) or (proportional near integral near derivative)) and subtract\$ and disturbance	3

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L5

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Monday, February 13, 2006    [Printable Copy](#)    [Create Case](#)

SetName   Queryside by  
sideHit  
CountSet  
Name  
result  
set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

L5   L1 and control near (object or system) same ((mathematical near model) or (proportional near integral near derivative)) and subtract\$ and disturbance

3   L5

L4   L3 and model and subtract\$ and disturbance

23   L4

L3   L2 and control\$ near system

89   L3

L2   L1 and "PID"

104   L2

L1   700/27-28.ccls.

1262   L1

END OF SEARCH HISTORY

## Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20020128730 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 3

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020128730

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020128730 A1

TITLE: Disturbance estimated type control system, gas compressor control system and method of designing a disturbance estimated type control system

PUBLICATION-DATE: September 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Shimada, Akira	Chiba-shi		JP
Nonami, Kenzou	Chiba-shi		JP

US-CL-CURRENT: 700/29; 700/28, 700/30, 700/37, 700/39

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 2. Document ID: US 6026334 A

L5: Entry 2 of 3

File: USPT

Feb 15, 2000

US-PAT-NO: 6026334

DOCUMENT-IDENTIFIER: US 6026334 A

TITLE: Control system for cross-directional profile sheet formation

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kayihan; Ferhan	Tacoma	WA		
Arkun; Yaman	Atlanta	GA		

US-CL-CURRENT: 700/28

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 3. Document ID: US 5877954 A

L5: Entry 3 of 3

File: USPT

Mar 2, 1999

US-PAT-NO: 5877954

DOCUMENT-IDENTIFIER: US 5877954 A

TITLE: Hybrid linear-neural network process control

DATE-ISSUED: March 2, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klimasauskas; Casimir C.	Sewickley	PA		
Guiver; John P.	Pittsburgh	PA		

US-CL-CURRENT: 700/29; 700/28, 700/31, 700/48, 706/16, 706/23

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	------

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Terms	Documents
L1 and control near (object or system) same ((mathematical near model) or (proportional near integral near derivative)) and subtract\$ and disturbance	3

Display Format:  Change Format[Previous Page](#)[Next Page](#)[Go to Doc#](#)

## Refine Search

### Search Results -

Terms	Documents
L1 and state near equation and transfer near function	9

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L6

Refine Search

Recall Text

Clear

Interrupt

### Search History

 DATE: Monday, February 13, 2006    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>		
<u>L6</u>	L1 and state near equation and transfer near function	9	<u>L6</u>
<u>L5</u>	L1 and control near (object or system) same ((mathematical near model) or (proportional near integral near derivative)) and subtract\$ and disturbance	3	<u>L5</u>
<u>L4</u>	L3 and model and subtract\$ and disturbance	23	<u>L4</u>
<u>L3</u>	L2 and control\$ near system	89	<u>L3</u>
<u>L2</u>	L1 and "PID"	104	<u>L2</u>
<u>L1</u>	700/27-28.ccls.	1262	<u>L1</u>

END OF SEARCH HISTORY



## Refine Search

### Search Results -

Terms	Documents
L6 and mathematical near model	5

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L7

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Monday, February 13, 2006    [Printable Copy](#)    [Create Case](#)

Set  
Name   Query  
 side by  
 side

Hit  
Count   Set  
                  Name  
                  result  
                  set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR*

<u>L7</u>	L6 and mathematical near model	5	<u>L7</u>
<u>L6</u>	L1 and state near equation and transfer near function	9	<u>L6</u>
<u>L5</u>	L1 and control near (object or system) same ((mathematical near model) or (proportional near integral near derivative)) and subtract\$ and disturbance	3	<u>L5</u>
<u>L4</u>	L3 and model and subtract\$ and disturbance	23	<u>L4</u>
<u>L3</u>	L2 and control\$ near system	89	<u>L3</u>
<u>L2</u>	L1 and "PID"	104	<u>L2</u>
<u>L1</u>	700/27-28.ccls.	1262	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20020128730 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 5

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020128730

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020128730 A1

TITLE: Disturbance estimated type control system, gas compressor control system and method of designing a disturbance estimated type control system

PUBLICATION-DATE: September 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Shimada, Akira	Chiba-shi		JP
Nonami, Kenzou	Chiba-shi		JP

US-CL-CURRENT: [700/29](#); [700/28](#), [700/30](#), [700/37](#), [700/39](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 2. Document ID: US 6751510 B1

L7: Entry 2 of 5

File: USPT

Jun 15, 2004

US-PAT-NO: 6751510

DOCUMENT-IDENTIFIER: US 6751510 B1

TITLE: Predictive and self-tuning PI control apparatus for expanded process control applications

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tan; Kok Kiong	Singapore			SG
Lee; Tong Heng	Singapore			SG
Huang; Sunan	Singapore			SG
Wang; Qing Guo	Singapore			SG

US-CL-CURRENT: [700/41](#); [318/609](#), [318/610](#), [700/28](#), [700/31](#), [700/37](#), [700/42](#), [700/45](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 3. Document ID: US 6691073 B1

L7: Entry 3 of 5

File: USPT

Feb 10, 2004

US-PAT-NO: 6691073

DOCUMENT-IDENTIFIER: US 6691073 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Adaptive state space signal separation, discrimination and recovery

DATE-ISSUED: February 10, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Erten; Gamze	Okemos	MI		
Salam; Fathi M.	Okemos	MI		

US-CL-CURRENT: [702/190](#); [367/129](#), [367/43](#), [367/45](#), [367/56](#), [379/386](#), [379/388.06](#),  
[379/390.02](#), [379/390.03](#), [381/94.1](#), [381/99](#), [700/173](#), [700/28](#), [700/44](#), [700/73](#), [702/197](#),  
[702/39](#), [702/54](#), [702/74](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 4. Document ID: US 5959861 A

L7: Entry 4 of 5

File: USPT

Sep 28, 1999

US-PAT-NO: 5959861

DOCUMENT-IDENTIFIER: US 5959861 A

TITLE: Adaptive robust control device

DATE-ISSUED: September 28, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaneko; Junji	Kawasaki			JP

US-CL-CURRENT: [700/29](#); [700/159](#), [700/160](#), [700/195](#), [700/28](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 5. Document ID: US 5379210 A

L7: Entry 5 of 5

File: USPT

Jan 3, 1995

US-PAT-NO: 5379210

DOCUMENT-IDENTIFIER: US 5379210 A

TITLE: Natural tracking controller

DATE-ISSUED: January 3, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grujic; Ljubomir T.	Villeneuve d'Ascq			FR
Mounfield, Jr.; William P.	Baton Rouge	LA		

US-CL-CURRENT: 700/28; 700/45

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	--------

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms

Documents

L6 and mathematical near model

5

**Display Format:**[Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

## Refine Search

### Search Results -

Terms	Documents
L7 and disturbance	3

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L8





### Search History

DATE: Monday, February 13, 2006    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>			
<u>L8</u>	L7 and disturbance	3	<u>L8</u>
<u>L7</u>	L6 and mathematical near model	5	<u>L7</u>
<u>L6</u>	L1 and state near equation and transfer near function	9	<u>L6</u>
<u>L5</u>	L1 and control near (object or system) same ((mathematical near model) or (proportional near integral near derivative)) and subtract\$ and disturbance	3	<u>L5</u>
<u>L4</u>	L3 and model and subtract\$ and disturbance	23	<u>L4</u>
<u>L3</u>	L2 and control\$ near system	89	<u>L3</u>
<u>L2</u>	L1 and "PID"	104	<u>L2</u>
<u>L1</u>	700/27-28.ccls.	1262	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20020128730 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 3

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020128730

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020128730 A1

TITLE: Disturbance estimated type control system, gas compressor control system and method of designing a disturbance estimated type control system

PUBLICATION-DATE: September 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Shimada, Akira	Chiba-shi		JP
Nonami, Kenzou	Chiba-shi		JP

US-CL-CURRENT: [700/29](#); [700/28](#), [700/30](#), [700/37](#), [700/39](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw D</a>
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------	---------------------------	-----------------------------	------------------------	----------------------	------------------------

☐ 2. Document ID: US 5959861 A

L8: Entry 2 of 3

File: USPT

Sep 28, 1999

US-PAT-NO: 5959861

DOCUMENT-IDENTIFIER: US 5959861 A

TITLE: Adaptive robust control device

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaneko, Junji	Kawasaki			JP

US-CL-CURRENT: [700/29](#); [700/159](#), [700/160](#), [700/195](#), [700/28](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KIMC</a>	<a href="#">Draw D</a>
----------------------	-----------------------	--------------------------	-----------------------	------------------------	--------------------------------	----------------------	---------------------------	---------------------------	-----------------------------	------------------------	----------------------	------------------------

☐ 3. Document ID: US 5379210 A

L8: Entry 3 of 3

File: USPT

Jan 3, 1995

US-PAT-NO: 5379210

DOCUMENT-IDENTIFIER: US 5379210 A

TITLE: Natural tracking controller

DATE-ISSUED: January 3, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grujic; Ljubomir T.	Villeneuve d'Ascq			FR
Mounfield, Jr.; William P.	Baton Rouge	LA		

US-CL-CURRENT: 700/28; 700/45

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	--------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L7 and disturbance	3

**Display Format:**

-

Change Format

[Previous Page](#)[Next Page](#)[Go to Doc#](#)

## Refine Search

Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

### Search Results -

Terms	Documents
L8 and control\$	3

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L9

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Monday, February 13, 2006   [Printable Copy](#)   [Create Case](#)

Set  
Name   Query  
 side by  
 side

Hit  
Count   Set  
                     Name  
                     result  
                     set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

<u>L9</u>	L8 and control\$	3	<u>L9</u>
<u>L8</u>	L7 and disturbance	3	<u>L8</u>
<u>L7</u>	L6 and mathematical near model	5	<u>L7</u>
<u>L6</u>	L1 and state near equation and transfer near function	9	<u>L6</u>
<u>L5</u>	L1 and control near (object or system) same ((mathematical near model) or (proportional near integral near derivative)) and subtract\$ and disturbance	3	<u>L5</u>
<u>L4</u>	L3 and model and subtract\$ and disturbance	23	<u>L4</u>
<u>L3</u>	L2 and control\$ near system	89	<u>L3</u>
<u>L2</u>	L1 and "PID"	104	<u>L2</u>
<u>L1</u>	700/27-28.ccls.	1262	<u>L1</u>



END OF SEARCH HISTORY